



PART NUMBER 980076-0001

ALLSTAR STARTUP INSTRUCTIONS



ALLSTAR with ENCODER ELECTRICAL MANUAL

**975-A OLD NORCROSS ROAD
LAWRENCEVILLE, GA 30045**

(770) 338-5000 TEL

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NOTE

The attached electrical diagrams with these instructions are for reference purposes only and may show wiring for options not supplied with the door. Please refer to the actual schematics that are supplied with the control panel.

WARNING

DO NOT INSTALL, OPERATE, OR SERVICE THIS PRODUCT UNLESS YOU HAVE READ AND UNDERSTAND THE SAFETY PRACTICES, WARNINGS, INSTALLATION, AND MAINTENANCE INSTRUCTIONS CONTAINED IN THIS MANUAL.

Albany Door Systems

STATEMENT OF WARRANTY

ONE YEAR WARRANTY ON DOOR PANEL, MECHANICAL & ELECTRICAL COMPONENTS

Albany Door Systems warrants to the original owner of the door that the door panel fabric, mechanical and electrical components will be free of defects in material and workmanship for a period of **twelve (12) months** from the date of shipment.

Only defects brought to the attention of **Albany Door Systems** during the warranty period will be covered by this warranty.

Albany Door Systems will replace any component parts, which are found to be defective upon inspection by an **Albany Door Systems** representative.

This warranty does not cover damage caused by collision or other abuse of the product. Adjustments made to the Control Panel or to the mechanical operation of the door without the authorization of **Albany Door Systems** will void this warranty.

The replacement provisions shall be the limit of **Albany Door Systems** responsibility under this warranty. **Albany Door Systems** shall not be responsible for any other losses or damages due to the operation of any door or parts covered by this warranty.

No other oral or written representations made by **Albany Door Systems** or its agents are a part of this warranty unless specifically set forth in writing by an authorized **Albany Door Systems** official.

THE ABOVE SET FORTH WARRANTY IS SELLER'S SOLE WARRANTY. SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE AFORESTATED OBLIGATION ARE HEREBY DISCLAIMED BY SELLER AND EXCLUDED FROM THIS AGREEMENT.

USW-230.99

SAFETY PRACTICES

WARNING

THOROUGHLY READ THESE SAFETY PRACTICES PRIOR TO INSTALLING, OPERATING, OR SERVICING A HIGH-SPEED, RAPID ROLL® DOOR. FAILURE TO FOLLOW THESE SAFETY PRACTICES MAY RESULT IN PROPERTY DAMAGE, PERSONNEL BODILY INJURY, OR DEATH.

1. Do not operate a Rapid Roll® Door while you are under the influence of drugs or alcohol.
2. Do not use the door if any parts appear to be broken or damaged.
3. Stay clear of the door while it is operating.
4. Keep hands and feet clear of the door at all times.
5. Do not drive through the door opening unless door is completely open.
6. Maintain a clear door opening at all times. Keep the door opening free of any obstructions.
7. Remove power at the fused disconnect during all electrical or mechanical service. OSHA requires a disconnect to be properly tagged and locked out during all maintenance or service of equipment.
8. All electrical troubleshooting or service must be performed by a qualified electrician or service person and must meet all applicable local, state, federal, and other governing agency codes.
9. **USE EXTREME CAUTION** when it is necessary to service the control panel while it is energized.

WARNING

CONTROL PANEL CONTAINS HIGH VOLTAGE. QUALIFIED ELECTRICAL PERSONNEL SHOULD PERFORM THE FOLLOWING PROCEDURES ONLY. WIRING MUST MEET ALL LOCAL, STATE, FEDERAL, INTERNATIONAL, OR OTHER GOVERNMENT AGENCY CODES. FAILURE TO DO COULD RESULT IN SERIOUS INJURY OR DEATH.

If you have any questions, please contact your local Albany service provider for assistance. Otherwise contact Albany Door Systems 1-877-925-2468 for information on your local distributor.

INSTALLATION

The following instructions are guidelines for electrically installing a generic Rapid[®] Roll Door with and All★Star Drive System. Actual wiring may be different based on what options, special instructions, special components, etc. were ordered with the door. Consult the electrical schematics that are supplied with the door. These should be located inside the door's control panel.

WARNING

CONTROL PANEL CONTAINS HIGH VOLTAGE. THE FOLLOWING PROCEDURES SHOULD BE PERFORMED BY QUALIFIED ELECTRICAL PERSONNEL ONLY. WHENEVER REMOVING POWER FROM THE CONTROL PANEL, WAIT AT LEAST 1 MINUTE PRIOR TO SERVICING TO ALLOW CAPACITORS INSIDE THE FREQUENCY INVERTER TO DRAIN. WIRING MUST MEET ALL LOCAL, STATE, FEDERAL, INTERNATIONAL, OR OTHER GOVERNMENT AGENCY CODES. FAILURE TO DO COULD RESULT IN SERIOUS INJURY OR DEATH.

NOTE

TO AID THE WIRING AND SERVICE OF ALL ELECTRICAL CIRCUITS, TAG OR LABEL ALL WIRE ENDS DURING THE FOLLOWING ELECTRICAL INSTALLATION. HIGH VOLTAGE POWER LEADS TO THE DRIVE UNIT MUST BE RUN IN A SEPARATE CONDUIT FROM THE LOW VOLTAGE CONTROL WIRES.

1. Ensure the mechanical installation of the door is complete.
2. Mount the control panel at a serviceable height on the drive side of the door.
3. Run two electrical conduits from the control panel to the drive unit. Install a suitable junction box at the drive unit for the motor leads. **RUN ENCODER WIRE IN A SEPARATE CONDUIT!** Install a separate suitable junction box for the Encoder wiring.
4. Run conduits from the control panel to the side frame(s) to accommodate the door jamb photocell(s) and the contactless safety edge (if supplied).
5. Install the pressure switch onto the bottom beam. Run the retractile cord to the control panel. Secure the retractile cable to the drive side side frame cover using supplied cable clamp.
6. Install all the actuators and wire according to the electrical wiring diagrams.
7. Install a non-fused disconnect beside the control panel. The main supply to the All★Star drive system can be wired from 208 VAC up to 600 VAC. The control panel is fused at 15 amps.

CAUTION

VERIFY ALL FIELD WIRING TO ENSURE TERMINAL CONNECTIONS ARE TIGHT AND CORRECT. A FUSED DISCONNECT IS REQUIRED FOR EACH ALBANY DOOR AS A MEANS OF DISCONNECTING INCOMING POWER FROM THE CONTROL PANEL. THIS DISCONNECT IS NORMALLY SUPPLIED BY OTHERS.

SETUP - ALLSTAR™ DRIVE SYSTEM WITH ENCODER

1. Apply downward pressure on drive unit disengagement lever. Located on the backside of the drive unit brake unit/pulse encoder enclosure to release the brake. While the brake is released, manually move the door to the halfway point by pulling the door down. Allow brake to re-engage.

CAUTION

WHEN MANUALLY MOVING THE DOOR, GRAB HOLD OF THE ALUMINUM OF THE BOTTOM BEAM. DO NOT PULL ON THE YELLOW, AS IT MAY TEAR.

2. Apply power to the control panel. Check for correct line voltage at FU1, FU2, and FU3 with a voltmeter. Ensure the **POWER** LED's on both the PLC and frequency inverter are lit. Also ensure that the **RUN** LED is lit on the PLC.

CAUTION

ALL STEPS ASSOCIATED WITH SETTING THE DOOR LIMITS MUST BE PERFORMED WITH EMERGENCY STOP BUTTON PULLED OUT.

3. Pull out the emergency stop button and put the system into the setup mode by pressing the **SETUP** button (located on the control panel backplate). The **RESET** button on the face of the panel should be illuminated. The 11-CR relay should also be energized also at this point. On the PLC the Y0, Y5 lights will be lit.
4. Using the **UP/DOWN JOG DOOR** switch located on the control panel backplate (small rocker switch), jog the door in the up direction. If the door opens, then go to the next step. If the door closes, then the phase rotation on the drive unit is backwards. Swap two of the three motor leads in the panel to change the motor rotation (Terminals T11, T12, and T13).

NOTE

FOR THE FOLLOWING STEPS IT IS IMPORTANT TO ENSURE THE DOOR IS MOVING WHEN THE RESET BUTTON IS PUSHED TO SET THE CLOSE LIMIT. DO NOT RELEASE THE JOG SWITCH UNTIL DOOR HAS STOPPED MOVING.

Setting the Door Limits

1. Press the **SETUP** button putting the door into the setup mode. The **RESET** should be illuminated at this point.
2. Using the **JOG SWITCH** run the door down. While the door is closing, press the **RESET** button when the door reaches the desired bottom limit position. The PLC will automatically sets this as the doors' bottom limit. The **RESET** button will go out also when you set this limit.
3. Put the system in the setup mode again by pressing the **SETUP** button.
4. Run the door up using the **JOG SWITCH**. While the door opening, press the **RESET** button when the door reaches the desired top limit position. The PLC will automatically set this as the doors top limit. The **RESET** light will also go out at this time.

5. Put the system in the setup mode by pressing the **SETUP** button.
6. Run the door to the halfway point using the **JOG SWITCH**. This time release the JOG SWITCH and allow the door to come to a complete stop. Press the RESET button to clear the setup mode.
7. Push the green actuator button. As the door cycles, observe the open and close limits. Reset limits as necessary to obtain exact desired limits (repeat steps 1-6 as necessary).

Pressure Switch Adjustment

1. Bump the rubber safety edge with your hand and observe input X5 on the PLC. If LED does not flash off or was never on, then adjust the pressure switch. Flip RUN/STOP switch on PLC to the STOP position to ensure that door is unable to be actuated while performing this adjustment. Remove cover of pressure switch enclosure (Figure 1). Rotate white plastic screw on pressure switch counter-clockwise with small screwdriver until LED turns off. Rotate screw clockwise until input LED turns on. Turn another 1/4 turn. Test safety edge and observe LED (it should turn off momentarily whenever pressure is applied to safety edge).
2. Flip RUN/STOP switch back to RUN

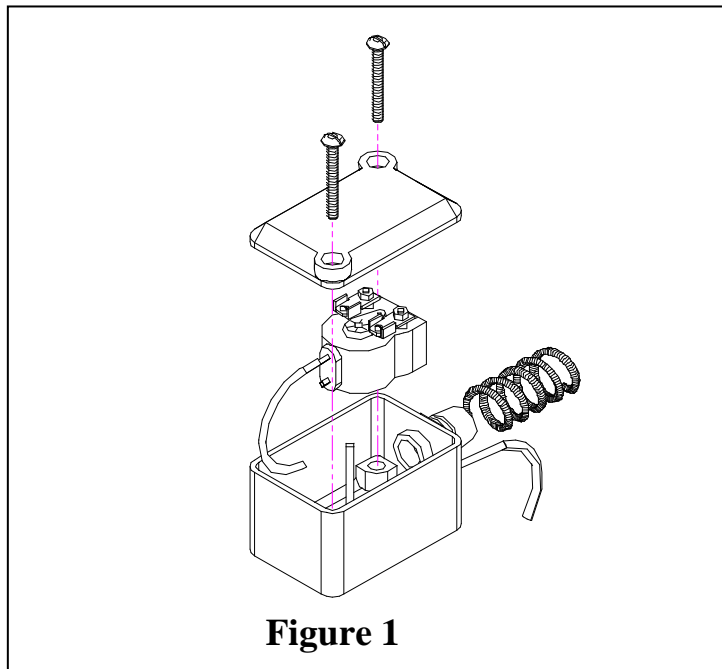


Figure 1

Final Checks

1. Check photocells for proper operation. Breaking the photocell beam should reverse the door
2. Check all actuators for proper operation and not sticking open.

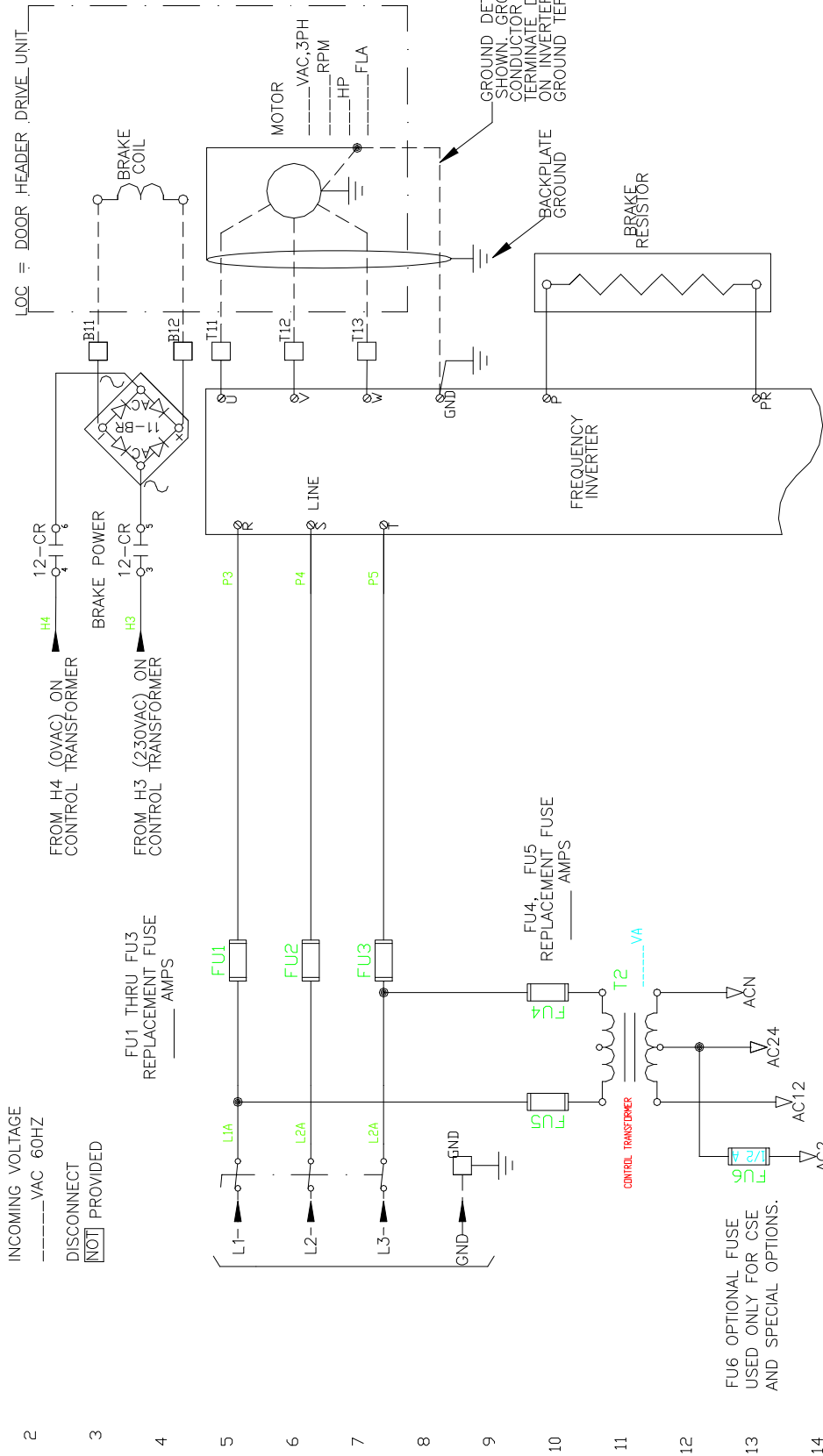
Rapid Roll Door Maintenance Checklist

| Safety / Reversing Functions | | ☀ | 220 | 230 | 355 | 570 | 670 | X2 | PT800 | RCA |
|---------------------------------|-----|-------------------|-----|-----------------|-----|----------------------|-----|--------------------|-------|-----|
| Disconnect Switch | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Crank Switch | C | | ☀ | ☀ | | | | | | |
| Photoeyes | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Reversing Edge | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Emergency Stop | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Warning Labels | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Tension System | | | | | | | | | | |
| Steel/Rope Cables | C/L | | | | ☀ | ☀ | ☀ | ☀ | ☀ | |
| Cable Attachment Bolts | C | | | | | ☀ | ☀ | | | |
| Cable Drum | C | | | | | ☀ | ☀ | | | |
| Spring / Spring Attachment | C | | | | ☀ | ☀ | ☀ | | | |
| Balance System | C/A | | | | ☀ | ☀ | ☀ | | | |
| Control Panel | | | | | | | | | | |
| Enclosure | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Electrical Connections | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Interlock | C/A | | | | | | | | | |
| Timers | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Warning Lights / Horns | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Actuators | | | | | | | | | | |
| Pushbuttons | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Pull Switches | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Radio Controls | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Motion Detectors | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Photoeyes | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Floor Loop Detector | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Door Fabric / Sideframes | | | | | | | | | | |
| Door Fabric | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Fabric Tracking | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Bottom Beam End Brackets | C | | ☀ | ☀ | ☀ | ☀ | ☀ | | | ☀ |
| Mounting Fasteners | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Bearings & Locking Collors | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Windbar System | C/A | | | | | ☀ | ☀ | | | ☀ |
| Roll Support Rollers | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Window / Vision Panels | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Sideframe Locking Pins / Bolts | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Hinges | C | | | | | ☀ | ☀ | | | ☀ |
| Bottom Beam Profile | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Doors Seals | C | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Immersion Heaters | C | | | | | ☀ | ☀ | | ☀ | ☀ |
| Drive Unit | | | | | | | | | | |
| Gearbox / Oil Level | C/F | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Disengagement | C/A | | | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Brake | C/A | | | ☀ | | ☀ | ☀ | | | |
| Slipping Clutch | C/A | | | ☀ | | ☀ | ☀ | | | |
| Friction Disc (.1/16") | C/R | | | ☀ | | ☀ | ☀ | | | |
| Limit Switches / Settings | C/A | | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ | ☀ |
| Coupling | C/A | | ☀ | | | ☀ | ☀ | | | |
| Chain Drive | C/L | | | | | | | | | ☀ |
| C = CHECK | | A = ADJUST | | F = FILL | | L = LUBRICATE | | R = REPLACE | | |

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INCOMING VOLTAGE
 _____ VAC 60HZ
 DISCONNECT
 [NOT] PROVIDED



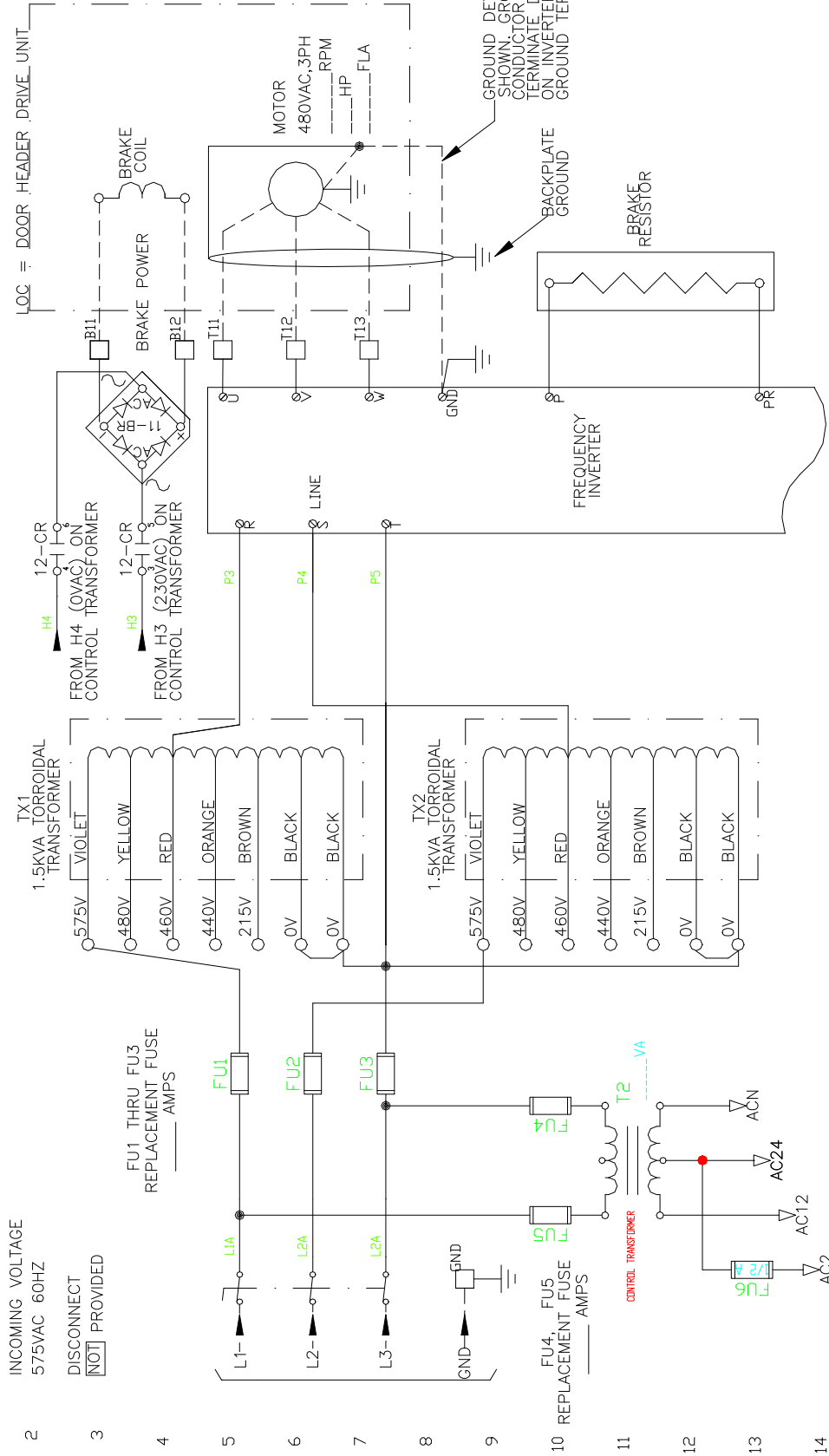
DOOR # _____

| BY | DESCRIPTION | POWER |
|--------------|--------------|-----------------|
| RMR | POWER | WITH BRAKE, 3PH |
| DRAWING TYPE | DRAWING NAME | DRAWING NUMBER |
| DATE | PANDX3F | 980074-4074 |
| 2003/03/10 | | |



| REV | DESCRIPTION/ | PREVIOUS INFORMATION | DATE | INITIAL |
|-----|--------------|----------------------|------------|---------|
| 1 | FU6 NOTE | | 2005/10/20 | RMR |

A B C D E F G H I J K L M N O P Q R S T U V W X



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FU6 OPTIONAL FUSE
USED ONLY FOR CSE
AND SPECIAL OPTIONS.

| | | | | | |
|-----|-----------------------------------|------------|---------|--------------------|---|
| 2 | NEW TOROIDAL 4909T0004 WIRING | 2005/11/29 | RMR | BY RMR | DESCRIPTION POWER DIAGRAM ALLSTAR WITH BRAKE, 3PH, 575V |
| 1 | FU6 NOTE | 2005/10/20 | RMR | DRAWING TYPE POWER | DRAWING NAME |
| REV | DESCRIPTION/ PREVIOUS INFORMATION | DATE | INITIAL | DATE 2003/03/10 | DRAWING NUMBER PANDX35F 980074-4079 |



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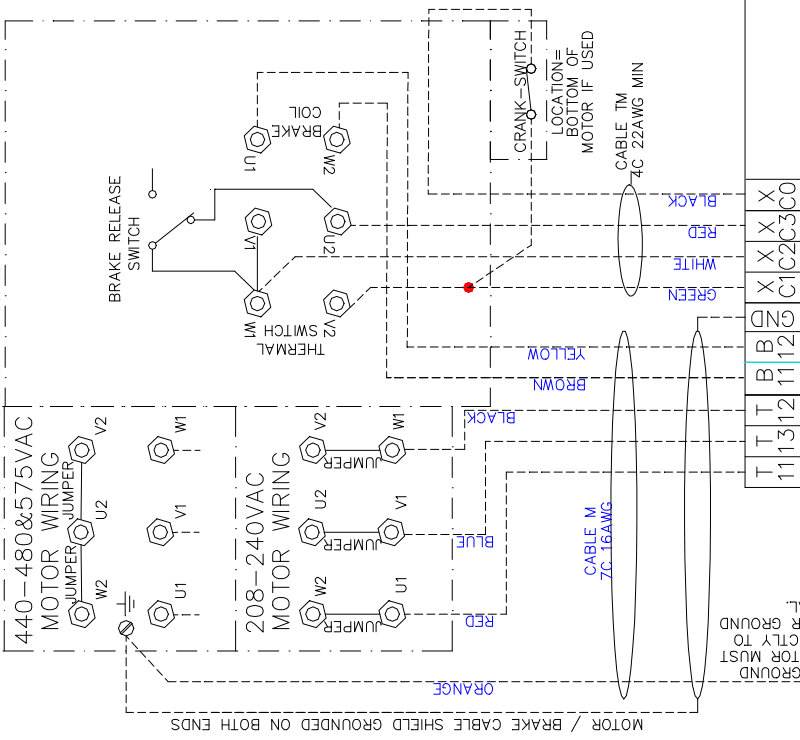
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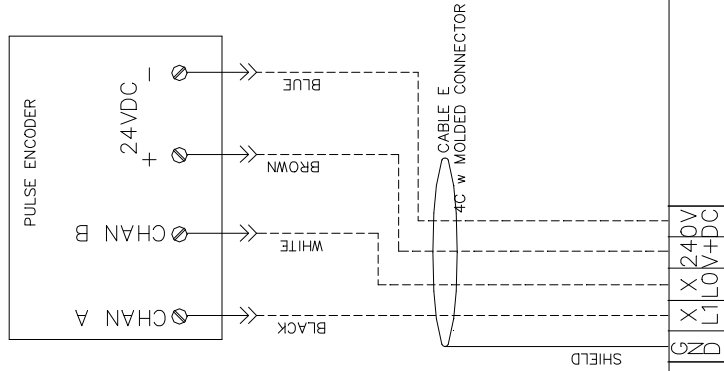
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LOCATION = MOTOR COMPARTMENT



LOCATION = BOTTOM OF MOTOR



SYMBOLS:
 ——— = CONTROL PANEL WIRING
 - - - - = FIELD DEVICE WIRING
 - · - · - = TERMINAL JUMPER

DOOR #

| | | | |
|----------------|------------|------------------------------|--------------|
| BY | RMR | DESCRIPTION | DOOR CONTROL |
| DRAWING TYPE | WIRING | WIRING, ALLSTAR WITH ENCODER | |
| DRAWING NUMBER | | | 980076-4010 |
| DATE | 2003/10/10 | DRAWING NAME | WANBF |



COLOR-CODE

DESCRIPTION/ PREVIOUS INFORMATION

2004/04/12

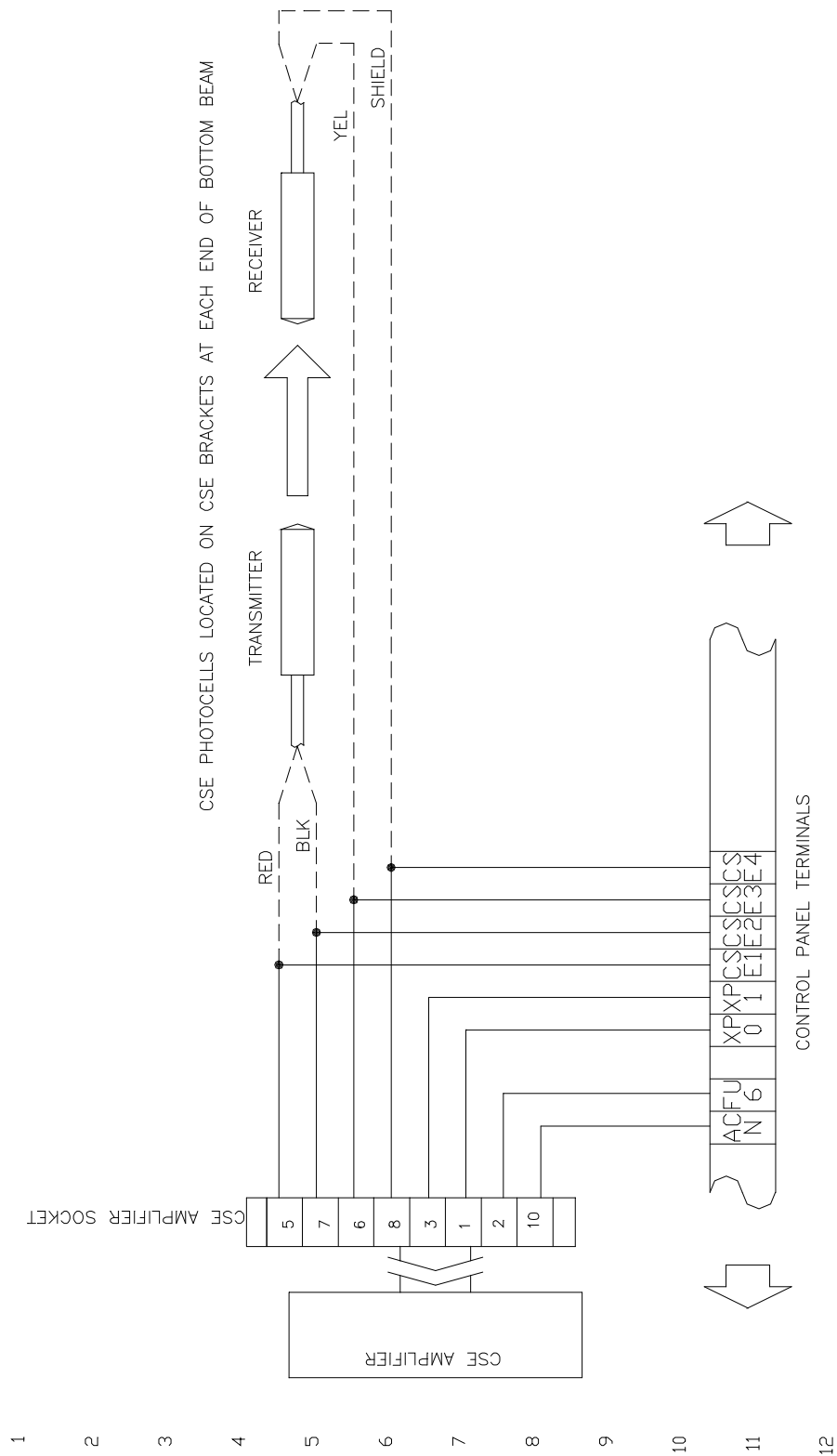
DATE

RMR

INITIAL

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REV

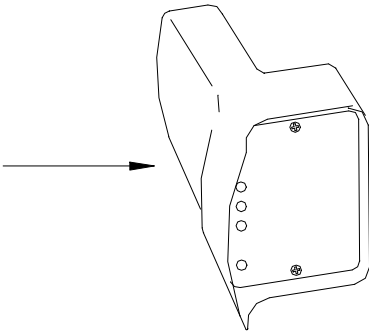


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|--------------|-----------|----------------|--------------------|
| BY | RMR | DESCRIPTION | CONTACTLESS SAFETY |
| DRAWING TYPE | ACTUATOR | EDGE PHOTOCELL | WIRING |
| DATE | 2001/7/17 | DRAWING NAME | DRAWING NUMBER |
| | | BCSE | 980084-2001 |

| REV | DESCRIPTION/ PREVIOUS INFORMATION | DATE | INITIAL |
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| | | | |

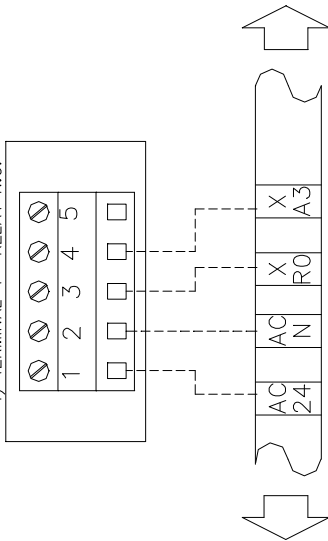
A B C D E F G H I J K L M N O P Q R S T U V W X

NOTE: DIP SWITCH SW1 AND ROTARY SWITCH SW2 ON THE ACS-50 CPU CARD MUST BE CONFIGURED FOR AUTOMATIC DOOR CLOSING WHEN USING THESE ACTUATORS.



MOTION DETECTOR, ALBANY DOOR SYSTEMS MD-1

- NOTES: 1) TERMINAL 1= 24VAC
2) TERMINAL 2= NEUTRAL
3) TERMINAL 3= RELAY COMMON
4) TERMINAL 4= RELAY N.O.



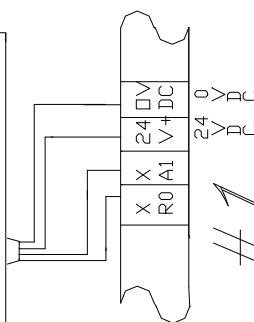
NOTES: (1)ALL INPUTS ARE 24VDC

SYMBOLS: _____ = CONTROL PANEL WIRING
----- = FIELD DEVICE WIRING
- . - . - . = TERMINAL JUMPER/ FIELD DEVICE

DOOR # _____

| | | | | | |
|-----------------------------------|--|-----------------|--|-----------------|--|
| BY | | DESCRIPTION | | ACTUATOR WIRING | |
| DRAWING TYPE | | MOTION DETECTOR | | DRAWING NUMBER | |
| ACTUATOR | | DRAWING NAME | | 980086-4034 | |
| DATE | | BMDADS | | 980086-4034 | |
| 2002/4/8 | | | | | |
| DESCRIPTION/ PREVIOUS INFORMATION | | DATE | | INITIAL | |
| REV | | | | | |





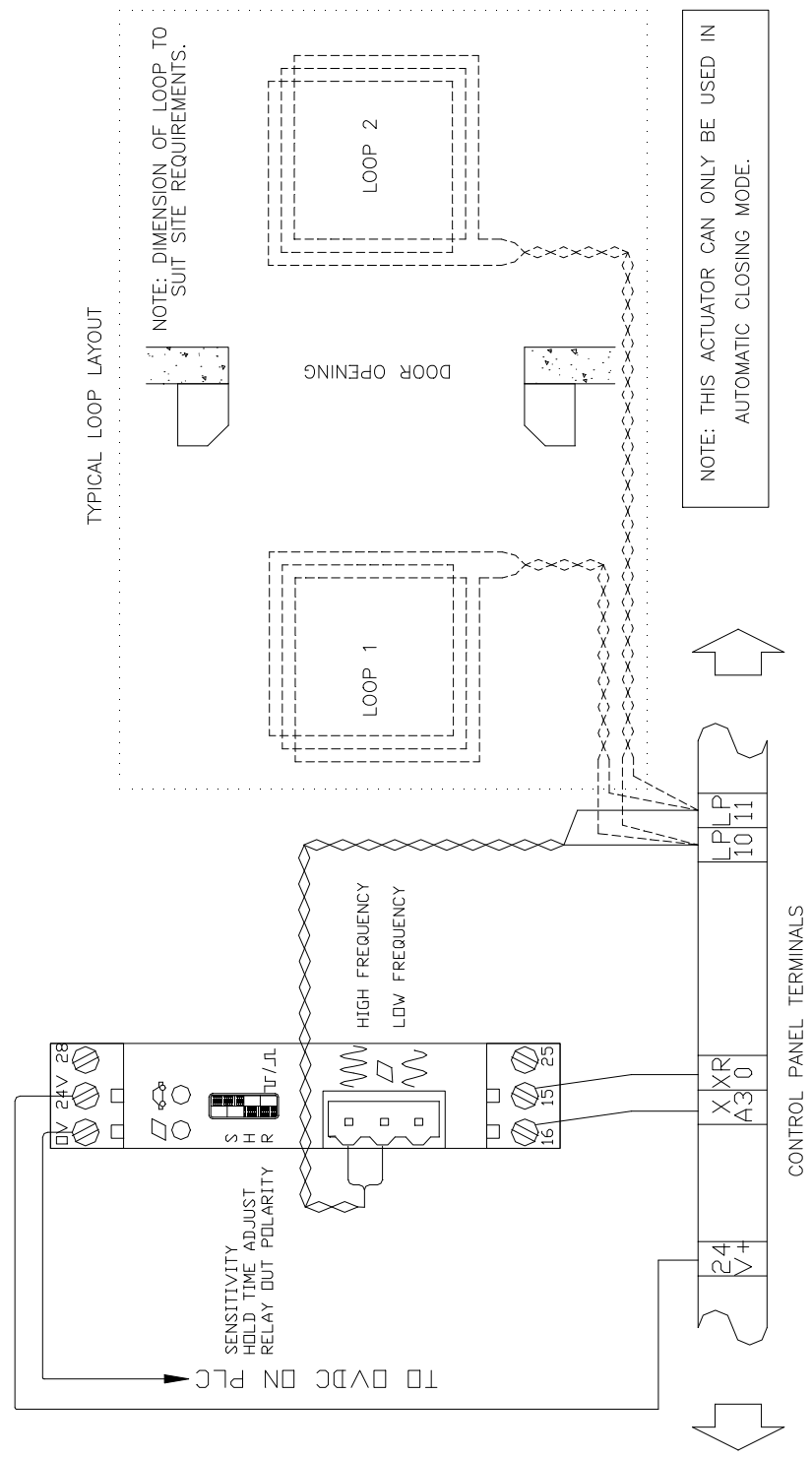
DOOR #1
RADIO RECEIVER

NOTE: SEE INSTRUCTION SHEET 211090 A FOR SETTING CODES

| REVISION | INT. | DATE | OPTIONS | INT. | DATE | DWG. NUMBER | DOOR # | ALBANY DOOR SYSTEMS <small>A company of Albany International Corp.</small> |
|----------|------|--------|---------|------|------|-------------|------------------|--|
| AXRAD4 | RMR | 010809 | | | | BR1CH | RADIO RECEIVER | |
| | | | | | | PAGE # | FOR PLC LOGIC | |
| | | | | | | 1 OF 1 | DWG# 980086-4023 | |

A B C D E F G H I J K L M N O P Q R S T U V

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|-----|-----------------------------------|------|---------|--------------|-----------|-----------------------|----------------|------|
| REV | DESCRIPTION/ PREVIOUS INFORMATION | DATE | INITIAL | BY | RMR | DESCRIPTION | FLOOR | LOOP |
| | | | | DRAWING TYPE | ACTUATOR | ACTUATOR WIRING, FEIG | | |
| | | | | DATE | 2002/2/28 | DRAWING NAME | DRAWING NUMBER | |
| | | | | | | BFL-VEK | 980084-4021 | |



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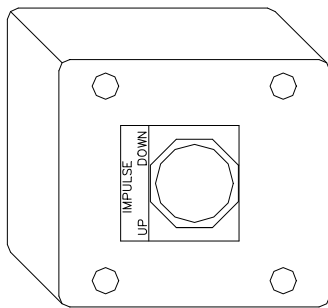
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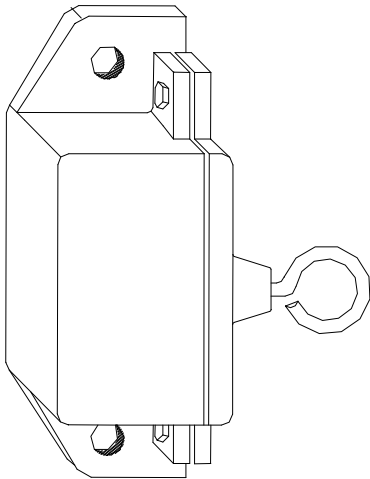
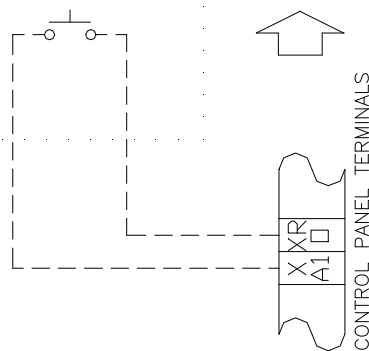
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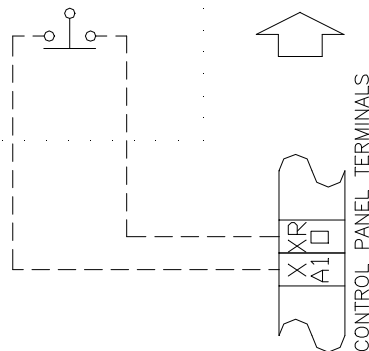
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PUSH BUTTON
STATION



PULL SWITCH



| | | | | | | | |
|-----|-----------------------------------|------|---------|----|-----|----------------------------|-------------|
| REV | DESCRIPTION/ PREVIOUS INFORMATION | DATE | INITIAL | BY | RMR | DESCRIPTION | |
| | | | | | | PUSHBUTTON | |
| | | | | | | AND PULLCORD OPTION WIRING | |
| | | | | | | DRAWING NAME | |
| | | | | | | DRAWING NUMBER | |
| | | | | | | BPBPS | 980086-4004 |





TROUBLESHOOTING GUIDE

For programs AEBLR, AEBQR

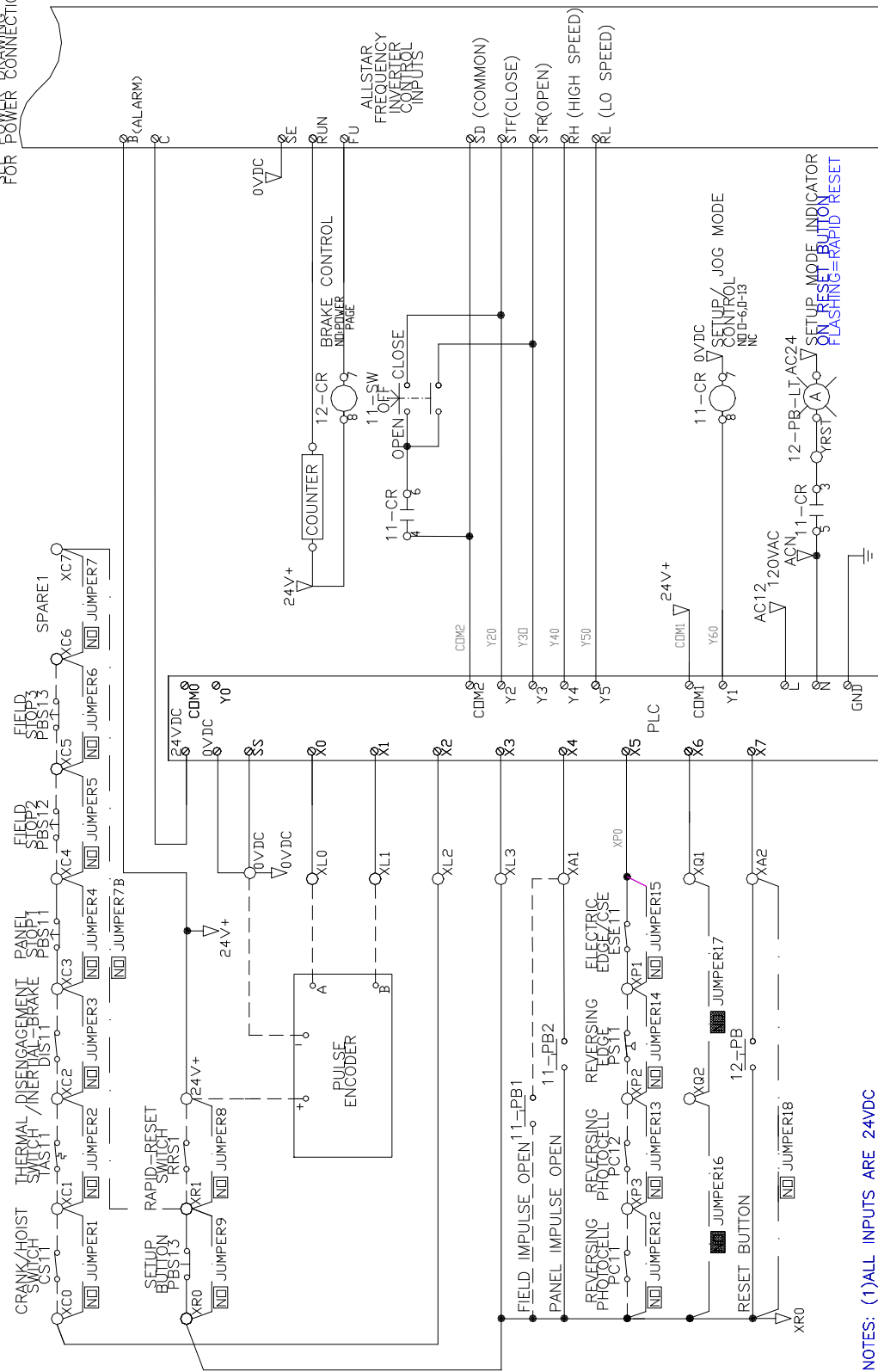
WARNING: ALL ELECTRICAL TROUBLESHOOTING OR SERVICE MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN OR SERVICE PERSON AND MUST MEET ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OTHER GOVERNING AGENCY CODES. EXERCISE EXTREME CAUTION WHEN IT IS NECESSARY TO SERVICE THE CONTROL PANEL WHILE IT IS ENERGIZED.

The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals L&N. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1** and **FU2** are the main power supply to the panel. Fuses **FU3 & FU4** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

| PLC INPUTS (X0-X7) | | |
|-----------------------|--|--|
| INPUTS ("IN" LED'S) | | DESCRIPTION |
| 0 | | Encoder Position Signal – Channel B. Flickers when doors runs. |
| 1 | | Encoder Position Signal – Channel A. Flickers when doors runs. |
| 2 | | Shutdown Devices. Should be lit unless a shutdown device (E-Stop, Crank Switch, ect) or SRD is activated |
| 3 | | Setup. Should be lit unless the setup button has been tripped. |
| 4 | | Actuator Impulse Open. Will come on for as long as the actuator has been activated. If on continuously, check actuators. |
| 5 | | Safety Devices. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be on unless a safety device is activated. (N/C) |
| 6 | | Interlock. Needs be lit to enable door operation, or jumped out if no interlock is being using. |
| 7 | | Reset Button. Will Reset the door when activated. |
| | | |
| | | |

A B C D E F G H I J K L M N O P Q R S T U V W X

SEE POWER DRAWINGS



NOTES: (1)ALL INPUTS ARE 24VDC

SYMBOLS: — = CONTROL PANEL WIRING
- - - = FIELD DEVICE WIRING
- - - = TERMINAL JUMPER

PROGRAM # AEBLR
DOOR #

| REV | DESCRIPTION/ PREVIOUS INFORMATION | DATE | INITIAL | BY | DESCRIPTION | DOOR CONTROL |
|-----|-----------------------------------|------|---------|----------------|----------------------|--------------|
| | | | | RMR | ALLSTAR FULL OPTIONS | |
| | | | | DRAWING TYPE | | |
| | | | | LOGIC | | |
| | | | | DRAWING NAME | | |
| | | | | DATE | | |
| | | | | 2003/12/09 | | |
| | | | | AEB | | |
| | | | | DRAWING NUMBER | | |
| | | | | 980074-4087 | | |





TROUBLESHOOTING GUIDE

For program AEDXR

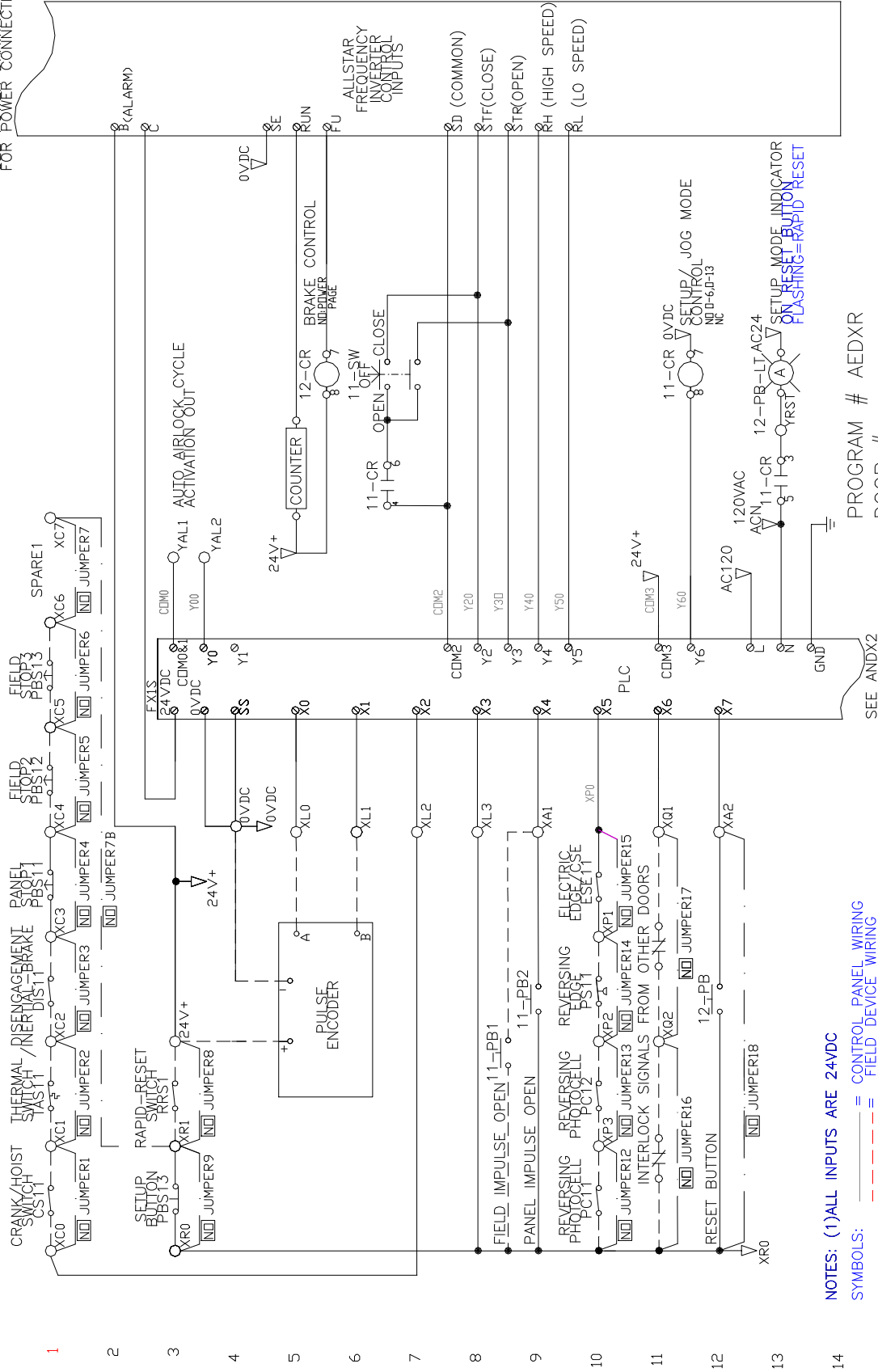
WARNING: **ALL ELECTRICAL TROUBLESHOOTING OR SERVICE MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN OR SERVICE PERSON AND MUST MEET ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OTHER GOVERNING AGENCY CODES. EXERCISE EXTREME CAUTION WHEN IT IS NECESSARY TO SERVICE THE CONTROL PANEL WHILE IT IS ENERGIZED.**

The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals L&N. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1, FU2, and FU3** are the main power supply to the panel. Fuses **FU4 & FU5** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

| PLC INPUTS (X0-X17) | |
|------------------------|---|
| INPUTS ("IN" LED'S) | DESCRIPTION |
| 0 | Encoder Position Signal – Channel B. Flickers when doors runs. |
| 1 | Encoder Position Signal – Channel A. Flickers when doors runs. |
| 2 | Shutdown Devices. Should be lit unless a shutdown device (E-Stop, Crank Switch, ect) or SRD is activated |
| 3 | Setup. Should be lit unless the setup button has been tripped. |
| 4 | Impulse Open. Will come lit for as long as the actuator has been activated. If on continuously, check actuators. |
| 5 | Safety Devices. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be lit unless a safety device is activated. (N/C) |
| 6 | Interlock. Needs be lit to enable door operation, or jumped out if no interlock is being using. |
| 7 | Reset Button. Will Reset the door when activated. |
| 10 | Not Used. |
| 11 | Actuator Full Height Open. Will come lit for as long as the actuator has been activated. If on continuously, check actuators. |
| 12 | Actuator Close. Will come on for as long as the actuator has been activated. If on continuously, check actuators. |
| 13 | Auto/Manual. Jump for non-auto. (Will be lit when in Manual mode) |
| 14 | Actuator Mid Height Open. Will become lit for as long as the actuator has been activated. If on continuously, check actuators. |
| 15 | NOT USED. |
| 16 | NOT USED |
| 17 | Extra Reversing Photocells. Will be lit (N/C). If no photocells are being used, should be jumped out for normal door operation. |

A B C D E F G H I J K L M N O P Q R S T U V W X

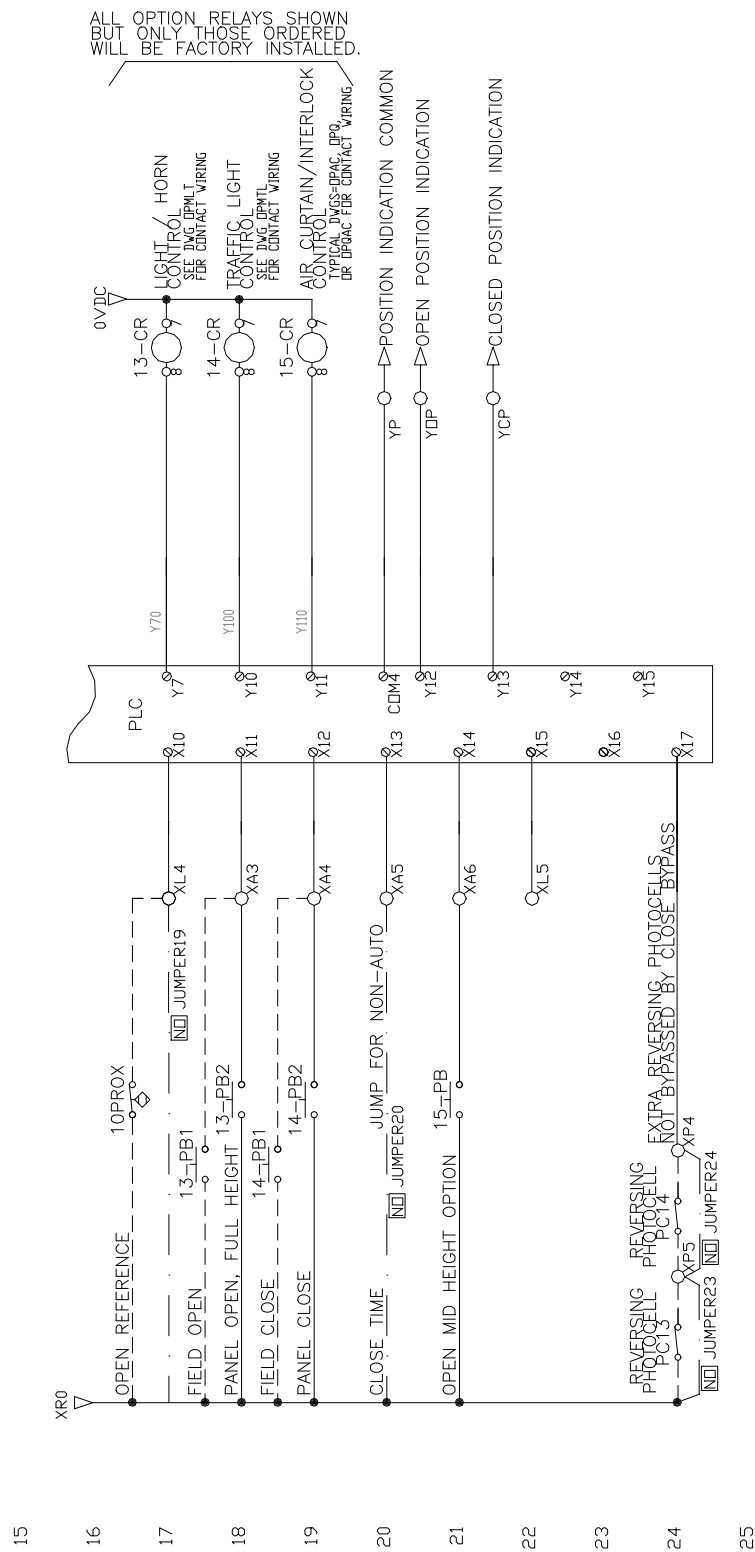
SEE POWER DRAWING FOR POWER CONNECTIONS



| REV | DESCRIPTION/ PREVIOUS INFORMATION | DATE | INITIAL | BY | | | DESCRIPTION | | | DOOR CONTROL | | |
|-----|-----------------------------------|------|---------|-----|--------------|----------------------|-------------|--------------|----------------|--------------|--------------|----------------|
| | | | | RMR | DRAWING TYPE | ALLSTAR FULL OPTIONS | RMR | DRAWING NAME | DRAWING NUMBER | RMR | DRAWING NAME | DRAWING NUMBER |
| | | | | | LOGIC | | | AEDXR | 980074-4090 | | | |
| | | | | | DATE | 2003/12/09 | | | | | | |



A B C D E F G H I J K L M N O P Q R S T U V



DOOR # _____

| | | | | |
|--------------------|--|--------------|----------------------|----------------|
| BY RMR | | DESCRIPTION | DOOR CONTROL | |
| | | | ALLSTAR FULL OPTIONS | DOOR OPTIONS |
| DRAWING TYPE LOGIC | | DRAWING NAME | | DRAWING NUMBER |
| DATE 2000/12/15 | | ANDX2 | | 980074-4035 |

| | | | | | | |
|-----|-----------------------------------|--------------------------|------------|----------|-----|---------|
| 1 | 13-CR THRU 15-CR | OPTION COMMENT + OPTIONS | PAGE REFS. | 05/09/19 | RMR | INITIAL |
| REV | DESCRIPTION/ PREVIOUS INFORMATION | | | | | DATE |



A B C D E F G H I J K L M N O P Q R S T U V

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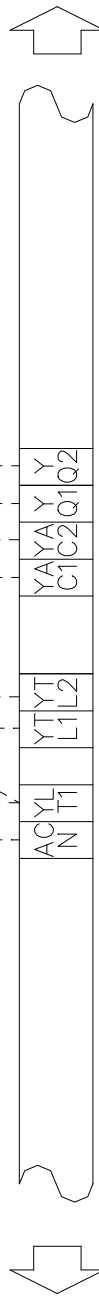
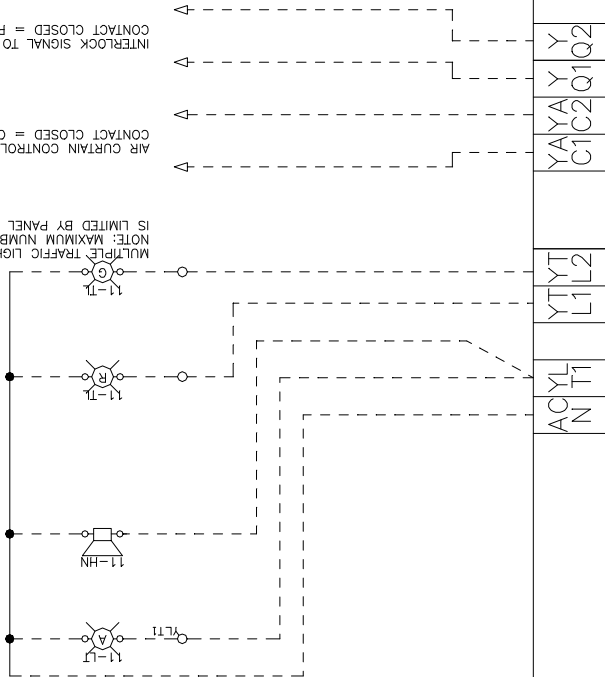
TYPICAL SEQUENCE:
15-CR ENERGIZES THE MOMENT A DOOR OPEN COMMAND IS RECEIVED
(EVEN BEFORE LEAVING CLOSED POSITION.) 15-CR REMAINS ENERGIZED
TIL DOOR IS CLOSED.
A STOP CONDITION DOES NOT AFFECT THE SIGNALS UNLESS THE DOOR
IS MANUALLY MOVED DURING A SHUTDOWN CONDITION.


AIR CURTAIN CONTROL SIGNAL TO REMOTE AIR CURTAIN EQUIPMENT
CONTACT CLOSED = ON COMMAND

INTERLOCK SIGNAL TO REMOTE DOOR / EQUIPMENT
CONTACT CLOSED = PERMISSIVE

MULTIPLE TRAFFIC LIGHT CONNECTIONS.
NOTE: MAXIMUM NUMBER OF WARNING DEVICES
IS LIMITED BY PANEL 120VAC POWER RATINGS.

MULTIPLE HORN / LIGHT CONNECTIONS.
NOTE: MAXIMUM NUMBER OF WARNING DEVICES
IS LIMITED BY PANEL 120VAC POWER RATINGS.



| | | | | | | | | | | | |
|-----|-----------------------------------|------|---------|-------------------------|--|--------------|----------------|--|---------------|---|--|
| REV | DESCRIPTION/ PREVIOUS INFORMATION | DATE | INITIAL | BY RMR | | | DESCRIPTION | | OPTION WIRING | | |
| | | | | DRAWING TYPE OPTIONS | | DRAWING NAME | DRAWING NUMBER | | | | |
| | | | | DATE | | | | | | | |
| | | | | 2001/8/24 | | | | | | | |
| | | | | | | | | | |  A company of Albany International Corp. | |

PLC AND ALLSTAR CONTROL PANEL JUMPER DEFAULT SETTINGS BY DOOR MODEL

CONTROL PANEL TERMINAL NUMBERS

| JUMPER FUNCTION /FIELD DEVICE BEING BYPASSED | JUMPER NUMBER | MODELS 230, 570, 670 W ALLSTAR LIMITS | MODELS 230, 570, 670 W ALLSTAR ENCODER | MODELS 230, 570, 670 W PLC CONTROL | MODEL RE-COIL- AWAY |
|--|--------------------|---|--|---|---------------------------|
| Crank/Hoist | Jumper1Crank/Hoist | XC0, XC1 | XC0, XC1 | XC0, XC1 | |
| Thermal | Jumper2 | | | | |
| Disengagement/Inertial Brake | Jumper3 | XC2, XC3 | XC2, XC3 | XC2, XC3 | XC2, XC3 |
| Panel E-Stop | Jumper4 | | | | |
| Field E-Stop1 | Jumper5 | XC4, XC5 | XC4, XC5 | XC4, XC5 | XC4, XC5 |
| Field E-Stop2 | Jumper6 | XC5, XC6 | XC5, XC6 | XC5, XC6 | XC5, XC6 |
| Spare1 | Jumper7 | XC6, XC7 | XC6, XC7 | XC6, XC7 | XC6, XC7 |
| Spare2 | Jumper7B | XC7, XR1 | XC7, XR1 | XC7, XR1 | XC7, XR1 |
| Rapid Reset | Jumper8 | XR1, 0VDC | XR1, 24V+ | XR1, 0VDC | XR1, 0VDC |
| Setup Button | Jumper9 | | | XR1, XR0 | XR1, XR0 |
| Open Slowdown Limit | Jumper10 | XC0, XL1 | XXXX | XC0, XL1 | XC0, XL1 |
| Close Slowdown Limit | Jumper11 | XC0, XL2 | XXXX | XC0, XL2 | XC0, XL2 |
| Photocell PC-11 | Jumper12 | | | | |
| Photocell PC-12 | Jumper13 | XP3, XP2 | XP3, XP2 | XP3, XP2 | XP3, XP2 |
| Pneumatic Reversing Edge | Jumper14 | | | | XP2, XP1 |
| Electric Reversing Edge | Jumper15 | XP1, X5 ON PLC | XP1, X5 ON PLC | XP1, X5 ON PLC | |
| Interlock1 | Jumper16 | XR0, XQ2 | XR0, XQ2 | XR0, XQ2 | XR0, XQ2 |
| Interlock2 | Jumper17 | XQ2, XQ1 | XQ2, XQ1 | XQ2, XQ1 | XQ2, XQ1 |
| Reset Button | Jumper18 | | | | |
| Special | Jumper19 | XXXX | XR0, XL4 | XXXX | XXXX |
| Defeat Close Timer | Jumper20 | | | | |
| Mid Height Limit1 | Jumper21 | XR0, XL4 | XXXX | XR0, XL4 | XR0, XL4 |
| Mid Height Limit2 | Jumper22 | XR0, XL5 | XXXX | XR0, XL5 | XR0, XL5 |
| Photocell PC-13 | Jumper23 | XR0, XP5 | XR0, XP5 | XR0, XP5 | XR0, XP5 |
| Photocell PC-14 | Jumper24 | XP5, XP4 | XP5, XP4 | XP5, XP4 | XP5, XP4 |

INSTRUCTIONS FOR FIELD INSTALLER

The above list shows the factory supplied jumpers. The purpose of these jumpers is to make quick startup of the door possible without having to begin with every field device completely wired. As the controls are started up and verified, each field device required can be added one at a time and checked.

When connecting a field device to the terminal strip, remove only the jumper that bridges the two terminals used by the device. Do not remove adjacent jumpers that only connect to one of the two terminals being used by the device.

RAPID RESET OPTION

The new accelerometer switch is a vibration switch calibrated to trip when a lateral impact on the beam causes a momentary force of acceleration on the bottom beam exceeding 1G. Because of the momentary nature of this switch, it cannot detect the final condition of the door fabric after impact. Due to the nature of the mechanical design, it is critical that the door not be electrically operated until the door blade is completely restored. Failure to reset door fabric back into the tracks will result in considerable damage to the door blade fabric, and may void warranty.

1. Upon impact, a shock sensor located in the bottom beam will signal the door to stop immediately. While it is preferable for the driver to stop upon impact, it is not necessary. The door will not be damaged if the driver continues through the opening.
2. A blinking amber light on the control panel will indicate the door is in need of being reset. A sticker on the control panel indicates the steps necessary for reset. They are as follows:
 - Return the fabric completely onto the side frame guide. This is accomplished by either moving the bottom bar manually back and forth, or the side frame covers may be opened.
 - Push and hold the reset button for 3 seconds until the light goes out. The door is now able to operate normally.

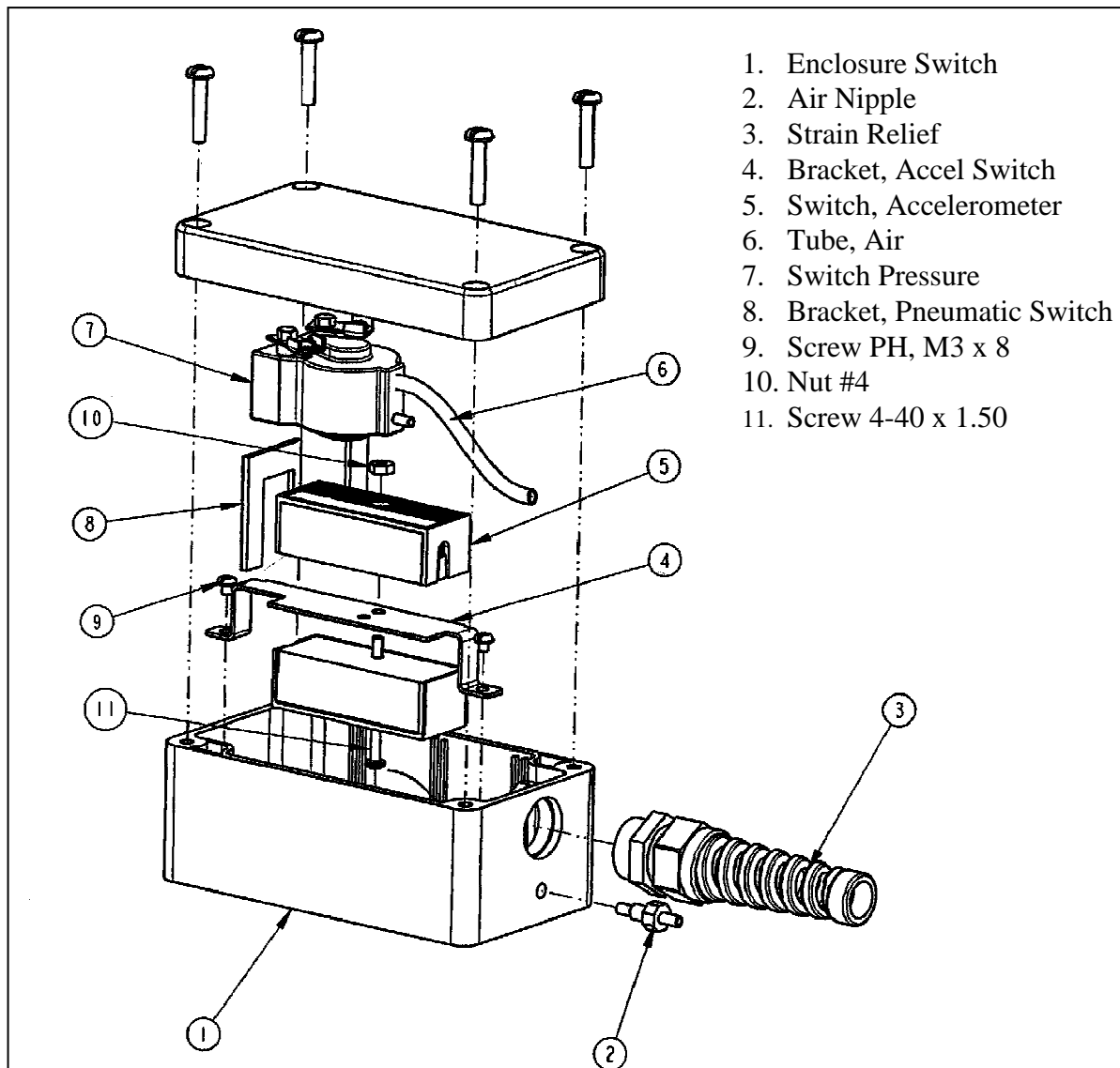


Figure 2

Notes:

| DOCUMENT TITLE | Allstar with Encoder Control Panel Manual | | |
|-----------------|---|--------------------------|--|
| DOCUMENT NUMBER | 980076-0001 | ISSUE DATE | 2006-01-13 |
| DOOR MODEL(S) | | ELECTRONIC FILE | Allstar with EncoderV4.DOC |
| ASSEMBLY | CONTROLS | REPLACES | Allstar Electrical Manual Encoder V2.5 |
| ORIGINATOR | Rick Walton | MANAGER APPROVAL/DATE | |